IN THE CLAIMS

This listing of claims replaces all prior versions and listings of the claims in the abovereferenced application.

1. (Currently Amended) A device comprising: a semiconductor light emitting device comprising:

an n-type layer;

a p-type layer;

an active region interposing the n-type layer and the p-type layer;

an n-contact electrically connected to the n-type layer; and

a p-contact electrically connected to the p-type layer;

wherein the n- and p-contacts are formed on a same side of the semiconductor light emitting device; and

a submount comprising:

first and second conductive regions on a first side of the submount; and third and fourth conductive regions on a second side of the submount; a semiconductor region; and

an insulating region, wherein the n- and p-contacts of the semiconductor light emitting device are electrically and physically connected to the first and second conductive regions of the submount in a flip chip configuration.

- 2. (Original) The device of claim 1 wherein the first and second conductive regions comprise a material selected from the group consisting of gold, silver, nickel, platinum, and copper.
- 3. (Original) The device of claim 1 wherein the first and third conductive regions are electrically connected by a first conductive layer and the second and fourth conductive regions are electrically connected by a second conductive layer.
- 4. (Original) The device of claim 3 wherein the first and second conductive layers are metal layers.
- 5. (Original) The device of claim 3 wherein the first and second conductive layers are highly doped semiconductor layers.
- 6. (Original) The device of claim 3 wherein the first and second conductive layers are disposed on the outside of the submount.

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- 7. (Original) The device of claim 3 wherein the first and second conductive layers are disposed within the submount.
- 8. (Original) The device of claim 7 wherein the first and second conductive layers each at least partially surround a region of semiconductor material within the submount.
- 9. (Original) The device of claim 7 wherein the first and second conductive layers comprise copper.
- 10. (Original) The device of claim 1 wherein the semiconductor light emitting device is mounted in a well formed on the submount.
- 11. (Original) The device of claim 10 wherein at least a portion of the sides and bottom of the well are reflective to light emitted by the semiconductor light emitting device.
- 12. (Original) The device of claim 10 wherein the well is at least partially filled with an optical coupling material.
 - 13. (Canceled).
- 14. (Currently Amended) The device of claim 13 further comprising circuitry formed in the semiconductor region.
- 15. (Currently Amended) The device of claim 13 wherein the non-semiconductor insulating region comprises glass.
 - 16. (Original) The device of claim 1 further comprising: a board; and
 - a solder joint connecting the board to the third and fourth conductive regions.
- 17. (Original) The device of claim 1 wherein the semiconductor light emitting device has an area greater than about $400 \times 400 \mu m^2$.
- 18. (Original) The device of claim 1 wherein the semiconductor light emitting device is capable of operating at a current density of at least 50A/cm².
- 19. (Original) The device of claim 1 wherein the semiconductor light emitting device has an area greater than or equal to about 1x1 mm².
- 20. (Original) The device of claim 1 wherein the semiconductor light emitting device is capable of operating at an electrical power consumption greater than or equal to 1W.
- 21. (Original) The device of claim 1 wherein a surface of the submount including the first and second conductive regions is free of wire-bond pads.
- 22. (Original) The device of claim 1 further comprising a luminescent material layer overlying a surface of the semiconductor light emitting device opposite the submount.

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- 23. (Original) The device of claim 22 wherein the luminescent material layer overlies a side surface of the semiconductor light emitting device.
- 24. (Original) The device of claim 1 wherein the first, second, third, and fourth conductive regions each comprise solderable layers.
- 25. (Original) The device of claim 1 wherein the semiconductor light emitting device has an area less than about 400 x 400 μ m².
- 26. (Original) The device of claim 1 wherein the semiconductor light emitting device is capable of operating at a current between about 5 mA and about 100 mA.

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